Plant Operations Notebook, N-95-00-00.3

This undated notebook was used by Edison, possibly in 1900; however, it may have been used as early as 1895. The book is primarily a record of observations concerning maintenance and repairs needed at the Ogden works. The pages are unnumbered. Approximately 150 pages have been used.

See Leaks in Roof
page 118 1st book

Jack shaft Dynamo Room Crushing P.
Bolts & set screws loose = Pulley in Center of
jackshaft has bolts loose in hub.
One bolt loose in hub of pulley
driving 25 ~~f~~ Dynamo.
One Grating wants Canvassing =
Set collar loose = oil pipe needs repair
Lagging loose on Put drive pulley No 1 Countershaft E.

Dynamos Crushing plant - piping, oil

Oil pipe needs bracing on Dynamo =
Oil hose broken at drain at Dynamo

No 1 Corliss Engine - piping oiling etc
Box covering steam pipe feeding exhaust
to Eng pit is broken under Railroad
track East of Engine house -
Rusting around W Main drive belt shaft
to be repaired at once dangerous -

Jack Cushman

Lagging off belt tightener
Belt to No 3 Counter needs taking up
Canvas splice torn =
Set screws loose in pulley driving Giants
Wood lagging loose on belt tightener
pulley on belt driving Jack shaft No 1 S.S.
Set screws loose in pulley on Jack
driving No 1 Countershaft S.S. =
New lagging wanted on belt tightener on
West main drive belt =
Canvas splice broke in drive belt =

Jack shaft of No 1 Carbon belts & tightener
Set screws loose, occurred 3 times, suggests
longer screw 1/2 min. 5
Long belt driving Jack at 36 Rolls worn at joints
Guide Pen is too short =
Lagging main drive pulley east end loose,
Waste oil pipe where it comes in leaking =
Counterbalance weight on main drive loose
Lagging loose on both main drive pulleys =
Set screws in pulley driving Jack loose
belts in pulley driving Giants = Ladder needed
to oil shaft not safe = Drip pan under
pulley next to one driving Giant leaks onto belt
East main drive pulley is loose on Key = Main
drive belts needs taking up West side =
Belts test screws loose in pulley that drives
Intermediate = Belts loose on Coupling
of shaft = One set screw loose on pulley
driving Giants = Main belt to Counter 3 to
be hooked tonight = Main drive belt to 3 Counter
should be taken up 4 days off (in) 1st report =
West main drive belt on Engine needs taking
up tonight = Wood lagging needs to be
tightened on main drive pulley = 2 main
drive pulleys are loose on Key to shaft =
Canvas splice main drive belt needs repair
Engine = belt to 3 Counter needs taking up

Intermediate Roll Jack shaft.
Bolts loose on driven pulley.

Intermediate Roll Cont

4 bolts loose N roll — Union leaking
on oil pipe back of roll =
Crack in face of idler pulley Int roll drive —
Valve wheel Extension should be put on oil
Valve W side Int Rolls —
Starting bars should have ends
Sharpened — N roll leaking on needs
E side — Oil leaks out N roll
Oil Casing W side outside —
N intermediate roll pulley very dry getting
no grease — New lagging wanted on
pulley driving rolls —

Intermediate Roll.

Oil pipe oiling friction leak badly —
Bad knock, roll rubbing on side N end of pulley
2 rolls = Rivit out of lagging pulley on roll
South roll = Waste oil pipe leaking where
screws into Casing of N roll E side =
Oil pipe valve feeding west side needs changing
Waste oil pipe leaking at union new
Int roll connecting shaft = Dogs worn for turning
Rolls needs points sharpening =
Oil Casing East side leaking = also on
West side leaking = Nut loose N E Corner
of Hopper = 45° elbow leaking badly
on drain pipe of N roll inside - W side =
Thrust end bearing S roll very warm =
Ball pipe joint S roll for oiling friction is too
tight = Drip pan over S roll pulley
full oil running on belt = S roll casing
leaking on inside W side = Idler pulley
Intermediate Roll needs looking after =
Piece of steel Casting on Hopper should
be cut off = Nine bolts loose in
Hopper = 1 rivit loose & 1 out lagging
drive pulley South roll = ~~Gum~~ Dirt
gum over driving belt should be cleaned
Would suggest it be made so it could not get
on belt = N Roll 8 bolts loose plates

S roll 1 bolt loose in plates =
Door on S side hopper needs repairs
Idler pulley runs very warm —
Thrust bearing S roll runs warm —
Some bad spots in drive belt =
Heavier weight wanted on rope holding up door N roll = One bolt in hopper had thread stripped = New bearing put in N roll runs hot = Thrust bearing N roll runs hot
Taken off today = suggest it be taken off tonight examined & repair if necessary
5 bolts loose S roll 2 loose N roll
~~Screw loose in oil leaking under~~
outside S bearing — 2 Rivets out of hopper under rolls — Drive belt should be taken up tonight = Oil leaks out S roll bushing E side
6 bolts loose in N roll now in S = Raw hides need repair = Lagging in bad condition S roll pulley = W roll very warm = Driving belt on main shaft needs taking up = 3 oil leaking inside =
friction band broken N roll = Oil leaking out S roll oil leaking W side inside =
friction band broken N roll — New belt wanted = Lagging loose S roll —
Grease cup broken on N roll = Oil & water steam broken W side roll —

Grant Roll.

Set screws loose on Idler pulley of belt Driving roll
2 valves on oil pipe feeding grease leaking =
Dogs need for turning rolls needs point sharpened = Bolts in lugs securing check plates on Hopper loose = Raw hides leaking on thrust end bearing = Waste oil pipe NE side leaking = Oil leaking out of thrust bearing S side = Oil leaking out of bolt holes W side ==
Bracket supporting grease cups on N Grant roll friction is not on proper =
Union leaking East casing S grant inside =
Hole in partition 1 bolt loose in Grant Driving belt goes through shaved &c Canvased =
Piece of wood used to guide roller feed belt is wearing belt == Bolts & lag screws in Steep dump need going over
= N roll 1 bolt loose in plates = S roll st bolts loose = S roll oil leaking leaking on inside E side = Stones thrown out of rolls right in belt = 6 bolts loose S roll
= Driving belt to be hooked tonight
3 bolts in plates loose N roll 5 in S roll
Oil leaking out bearings in thrust bearing
Need extra friction bands =

Grant

Wood around hopper needs repair
Oil leaking out N roll oil Casing inside
West side — Iron broken in cradle E side
also bolt loose in other iron — New blocks
wanted around roller feed lets too much
Corner rock back of roller —
Oil getting on Roll driving belt comes from
friction pulleys — Pants need be dressed on
starting levers — Tools need be dressed that
are used to tighten bolts — plates on rolls —
~~they~~ Screw broken in lug securing check
piece on rolls E side — Screw loose in clamps
N grant roll housing E side — 2 bolts loose
N Roll 3 loose S roll — ~~Nut loose~~ ~~and~~ ~~bolts~~ Oil leaking out N roll
Oil Casing W side inside — little S roll
W side inside — Starting bars showed
leave ends sharpened —
Guard around rolls has wood slats
loose — ~~Stud~~ bolt out ~~short iron~~
end.

Grant Roll Roller feed

Electric lights need repairing — two top
bolts broken in end of roller feed — New
rubber wanted — pulley on counter
driving roller feed has shifted — Have
belt driving roller feed taken up tonight —
pulley driving roller feed has shifted on shaft —
Have extra friction shoes for clutch got ready —
New wood wanted around roller feed
worn — chunks get between roll & hopper —
Roller feed belt needs taking up tonight —
Stud ~~—~~ bolt out sheet iron in
end grant roller feed E side —
Friction clutch wants tightening

Crane No 1

Bracket securing brake needs dowel pins — Screw broken No 2 bumper — Resilience bogies should be boxed in — Have hooks moderate timing — One tooth broken in gear & frame bearings broken at bearings on crane caused by block running up against drums — one drum cracked —

Crane No 2

Recess seat needed = would suggest that a piece of sheet iron be put along rail over contact strips prevent oil getting on them = 5 =
Skip chain hook has flaw in it =
Oil hole needs changing on main drive shaft bearing N E end No 2 Crane =
Nut on skip chain block of 2 Crane needs to be made secure =
Some rivets loose that secure I beam to track on 2 Crane = Bolts on main drive shaft Coupling of 2 Crane loose = one bumper needs repairs = Skip chain has flaw in hook = Bump on south end No 2 Crane should be made lower so wheel strikes bump = Chain dry + worn $\frac{1}{16}$ = Journal makes vibration in No 2 Crane track =
Skip chain hook has flaw in it =
~~[illegible]~~ frame for Recisterm boxes should be painted =

No 1 Elev Continued
found 5 wires broken in rope = several intermediate rope clamps slipped = One sleeve broken E side =

Crameway for Electric Cranes
Bolts in fish plates of Crane track are loose ~~[illegible] I been to [illegible]~~ House gauged crane track from Center of Crusher plant to W end of track Center of Bldg Track measures 37' 10½" at End of Crotch 37' 9 3/4" = Several bolts loose in frame, bolts loose in fish plates are marked thus → with blue chalk. Framework of Crameway have several mortices with no tenons in which rain water lodges causing timber to decay = gauge of track Center of Bldg 37' 10⅞ West end 37' 9 5/8 = East end 37' 10 5/8 = several vertical bolts need washers on fish plate bolts should be tightened =

Roller feed to 1 Elev (Continued)

Corrugations nearly worn off ~~[illegible]~~ retarding roll = Capscrew ~~[illegible]~~ out of guard over Sprocket chain driving retarding roll = = Gearwheel broken = 1 bolt loose in retarding roll — Bolts loose in guard over sprocket driving retarding roll + guard is bent so it comes in contact with chain = one spring broken in clutch driving roller feed = Guard on sprocket driving retarding roll should be repaired tonight = Clutch on roller feed dont clap in place when thrown = Drive belt needs taking up = New oil hose wanted = One bolt out of guard over retarding roll — Bolt loose in guard of retarding roll roller feed W side — Rawhides leaking on pipes oiling roller feed bearings Sprocket chain broken + one bolt out of Clamp on guard over chain driving retarding roll = 5 bolts out of plate over retarding rolls = angle iron loose on plate over retarding rolls = Stones are wearing retarding roll ~~[illegible]~~

Roller feed to No 1 Elevator,

Bolts loose in roller feed + retarding roll + Union is leaking near where Valves are located that oils bearings on roller feed = Sprocket chain caught in oil Cups of Elev Wheel breaking 3 Cups + 12 springs = he says guard be put on Elev frame + guard put over chain Valve to prevent cones getting bet Chain + Idles = Oil pipe Union + rawhides leaking roller feed bearings = Rawhides leaking on pipes oiling Roller feed bearings = pieces on sides of guard over sprocket chain driving retarding roll come loose = Clutch lever bent = Canvas needs repair on drive bearing =

No 3 Quickshaft driving 192 nd 36 Roll Canvas on W end bearing took = dagging loose on pulleys driving 36 & 24" Roll Oil leaking out end bearing next rope sheave Set screws loose in driven pulley = Bracket holding lever for roller feed broken = Chain driving retarding roll wearing on guard = 5 bolts in chute over retarding roll loose 1 bolt in retarding roll has cotter out = Timbers that shaft is on need going over + tightened =

No 1 Elev Cont'd —

Elev running to E side & wearing flanges of wheels — Oil pipe broken on top —
Elev rope worn bad in some places caused by clamp running Elev with clamps loose —
Bolts in pinion shaft bearing top Elev short W side — are breaking wanted on bolt in rail at Cut out —
Sleeves on W side wearing on frame at top —
Wheels are wearing on bolts in frame at top W side — One cup off wheel W side
Top drum don't run central — Buckets are striking top drum E side —
Bottom drums too high — gasket out of oil pipe union E side pinion shaft —
Several Intermediate clamps slipped —
New bottom plate wanted soon in bottom Chute delivering into 1 Elev —
Elev buckets touching on plank at bottom Elev East side —
Bearings on head spindle shaft of 1 Elev run hot lacing — New Canvas wanted
top drum bearing W side — Several Intermediate rope clamps slipped
found 2 wires broken in rope —
2 sleeves broken on W side —
Elev runs hard to East at top —
Hammer frozen [illegible] Intermediate clamps

No 1 Elevator

Sleeves running in contact with top of frame
Wheels wearing bolt top of frame W side
Oil pipe union leaking at top Elevator close to Trunk
Bolts loose in safety catch device —
Old hose bottom of Elevator bent so oil can't go through
Countersunk wood screws top of Chute delivering into Elevator loose — ~~Bolts [illegible]~~
Bad oil leak union at bottom of Elevator — Springs on oil cups by lifting plate which splices structure —
Bolts in splices and braces of main frame loose
One bucket loose — clamps need to be gone over —
~~Buckets striking lacing on pipe ceiling~~
Union leaking on drain pipe near 1st 36 R —
Several springs wanted — 2 sleeves loose
16 sleeves wearing frame top Elevator E side — 2 Intermediate Cl amps slipped
Belt driving Elevator slips — union leaking on oil drain pipe back of 1st 36 R —
One intermediate rope clamp missing —
One " " " slipped —
15 sleeves wearing on frame — oil leaking out of pinion shaft bearing next to spider
pulley driving Elev — Canvas torn top drum
2 clamps — Nut off bolt securing wooden support of No 1 Elev pinion shaft — bolt
Worn pinion shaft bearing next to [illegible] wheel

Make provisions for new plate in chute
One sleeve broken = Chute top Elev
Few holes worn in it = 1/2 inch
Vibration in frame of Elevator Top
one bar across gate at bottom of Elev
is bent out 2 inches = 1/4 inch thrust
motion in pinion ratchet shaft = Clamps
slipped on Elev = Knuckles on pipes oiling
rolls feed bottom Elev need repairs =
Clamp slipped on 1 Elev 11 am =
Oil pipe should be braced top Elev =
Bolts loose in pinion shaft next to ratchet
wheel = Canvas wanted on gear casing
top Elev = Have clamps leveled, tighten bolts
= Oil and cup off = clamps wearing in frame
at Cut out = Bottom drum should be looked
after one inch space between rope & drum
on one side while E side drum touches
rope = 2 short sleeves broken E side =
Clamps wearing on frame near bottom of Elev
= One sleeve broken = one cup off wheel
E side = Found one wire broken in rope =
Several inch hooks clamps slipped =
Bottom room too high there is extra friction shoes got
ready for 1 Elev Clutch = Clamps should be
straightened up = 1 short sleeve broken = 2
clamps very loose. 1 sleeve broken W side = 4 bros are
[illegible] but should be clamps

1st 36 Rolls
Hinge on door over North Roll broken —
2 rivets out of door over hopper
Chute back of rolls that delivers into 1 Elev leaking
Babbitt in South Roll pulley shaft bearing
is loose = Inspector says friction too
tight, or belt tightener not enough weight on
when rolls block belt runs to one side
& wears on framework of Building =
Oil pipes feeding 1st 36 Roll bearings leaking on
West side = Oil casing North roll leaking
on East side = Some plates are faced
too deep for bolts = N roll 2 bolts loose in
plates. S roll 8 bolts loose in plates =
Drum bolt needs taking up = Oil leaking
out N roll shaft E side = Thread stripped
in bolt seaming door North roll =
Rear hubs leaking pulley bearings =
Driving belt should be taken up =
3 bolts loose N roll = 8 loose S roll —
One check plate loose = Hopper needs repair
N thrust bearing runs warm = Idler pulley bearing
in bottom driving rolls runs warm = Bolt broken
in handle of door over roll = 7 bolts loose in
plate N roll 8 in S roll = Hinge broken on door
of hopper = Chute over roll hopper need repair
[illegible] was taken away should be replaced

1st 36

Canvas needs repair north roll pulley bearing = Have need piece put in drive belt = Oil leaking out of roll casing E side = Canvas wanted on idler bearing drive belt = Main drive belt needs taking up tonight = Have drive belt taken up. Rock Edler friction bands = Oil leaking out of casing N roll E side = Stay bolts broken in chute over rolls = wanted dropped limiting stop to put on Edler tightener to prevent Edler shaking Opposite side = 4 bolts loose N roll 10 loose S roll = Drive belt should be taken up = New plates wanted = found 3 worn broken in rope 7/31 = Babbitt loose S roll pulley bearing = Oil leaking out of S roll oil casing W side inside = Roll plate wearing on sheet iron on check plates = Dust collect under rolls & wears bolt heads = lagging on tightener of Drive belt bad shape Drip pipe from bearing idler drive leaks Union leaking N roll Oil casing E side outside = 2 new plates wanted in hopper delivering to 1st 36 Rolls = Set collar loose on idler pulley shaft on belt driving rolls =

1st 36 Rolls Cont

1st 36 Rolls blocked by stones left in rolls by Reays + Burns = Check piece is off = Have Idler removed tonight = plate needs repair in hopper over rolls = Have new belt hook put in splice of drive belt = New plate wanted in chute under rolls = plate in Hopper worn through Hook wanted in door of Hopper over rolls = Oil leaking out of idler pulley bearing of ~~drum~~ = shaft coupling should be repaired tonight S Roll = Hot bearing N roll E side = Have new lagging put on Counter shaft pulley driving roll tonight =

2nd 36 Roller

Bolts loose in gear shaft bearings
Oil casing leaking = oil pipe feeding Roll leaking
at Valve over North roll E side – Oil casing
is leaking on inside of North roll East side
Canvas cover on gear bearing that drives roll
North roll – has holes in it = Hook wanted over
door over South roll west side =
Shearing bolt wrenches wanted = Chute
delivering to roll has 3 bolts out of it =
Bolts loose in chute = 2nd 36 Roller feed –
Sprocket wheel driving Roller feed is wearing
on grease cups = 2 bolts out chute
delivery into 2nd 36 = Oil leaking out of
gear casing running in 24" Roll belt =
Chute leaking = N roll 3 bolts loose
in plates. S Roll 3 Bolts loose in plates
Leaks in hopper over rolls = Chutes delivering
to rolls needs to be raised & made secure –
Holes in new plates drilled out 3/16" =
Set screw in sprocket wheel on return
roll is striking chain = Driving pulley
loose on Countershaft = Canvas on
belt tightener needs repairing =
New canvas wanted on gear bearing =
11 Bolts loose N roll 1 loose S roll =
Gear casing of rolls needs more support =

2nd 36

Brace put on gear casing is not put on right = New sprocket chain wanted on extending roll = One bolt out of hopper = 3 bolts loose in plate S roll 4 - N roll - 3 bolts out of chute delivering to rolls = Hole worn in hopper = Oil leaking out of rubber hose - 9 bolts loose N roll 4 loose S roll Chute delivering to Rolls needs repair longitt 2 bolts out brace supporting Chute delivering to 2nd 36 Rolls = Inside Oil Casing N roll stopped up so oil cant drain out of pipe = Oil leaking out of inside oil Casing N roll E side. Have gears looked over longitt and tightened = plate under rolls as worn through = Stones are wearing ends of feed roll =

24" Rolls -

Oil casing on gears leaking = 2 Tees on oil pipe that oil gear bearings leaking = Oil Casing on North roll east side leaking New wrap plates on checks plates needed = Bushings broken on South 24" Roll Westside S S - Nipple leaking in Oil pipes feeding rubber bearings Cap screw wanted in brace supporting oil pipe that oils North roll East end bearing - Bolt out of brace supporting roll hopper S E Corner - = New plates put on - one new plate with the old plates connect shaft to vibrate or shear = Oil pipe feeding roll need supporting Oil raw hides are leaking = Oil Casing North leaking = Casing on S roll leaking on E side = Oil casing removed on S roll gears to put nut on bolt in split collar that holds pinion = One section of one tooth in Mortice wheel were broken = Hinge on door over South roll broken = Union in oil drain pipe leaking = Idler pulley runs very warm = N roll Thrust bearing leaking on E side = Canvas on roll gear casing has hole in it worn by belt = N roll 7 bolts loose plate S roll 7 bolts loose in plate Rawhides leaking - Oil drain pipes thrust

Bolts loose & broken on lugs on crusher
24" roll hopper = Oil leaking out N
roll wobbler bearing = 2 Canvases on
gear casing need repairs = Braces
supporting oil pipe wobbler bearing are
loose = New cap that was put on
pinion bearing is loose = Lagging on
belt tightener needs looking after =
8 bolts loose S roll 2 loose N roll =
Door needs repair on chute delivering to rolls
pulley on pinion shaft is loose on shaft
4 bolts loose on S roll 4 on N roll = Cap broken
on pinion shaft bearing careless of new
left nut on rolls? = oil leaking out of
rubber hose = Oil leaks out of gear casing =
3 oil casings leaking inside rolls =
Oil leaking out N roll bushing W side =
piece wood worn out on hopper under
rolls = Nuts loose on stay bolts of rolls =
Have bearing put in pinion shaft where
broken = Canvas wanted on roll next wobbler
Drive pulley on pinion shaft very loose on key & shaft =
New Canvas wanted on gear casing tonight =
Teeth broken in mortise wheel by bolts from set collar
on pinion shaft getting on wheel. Bolt was put =
wheel by night was not riveted or pinned =
Have new plates put in place those badly worn =
New check plates wanted = Chute from 24 roll is worn

No One Conveyor =
Steam pipe along Conveyor needs changing =
Can't go down ladder = Belt wearing on
Cross piece that support turnups
New distributing piece wanted in
hopper delivering into No 1 Conv =
Oil bearing hot = Conveyor runs to
East side of tail pulley =

24" Roll Crusher =
7 bolts loose N roll 9 loose S roll =
New plates wanted = S roll bushing
loose on W side = plates were not put on
rolls right last night = examine teeth on
Worlton wheels tonight = New Canvas
wanted on gear bearing = Cap oil ring
be put on pinion bearing tonight if bent
is taken up = Oil leaking out S roll
oil Casing inside West =
Oil pipe on wobbler shaft leaking
New Hopper wanted under the rolls =
Hopper under rolls for ore strikes on worm housing
Oil leaking out West Bearing S roll gear casing

24" Rolls Carlum
Hole worn in Chute delivering to rolls
New check plates wanted —

Return chutes to 24 Rolls
gets blocked up —

No 2 Elev Cont

Bolts in clamps should be tightened
Have Manilla drive rope spliced =

No 2 Elevator,

Belt loose top bearing = Stay bolts in drums loose - gear casing leaking
Canvas torn off bearings next to rope sheave
Oil drip pans should be emptied =
One bucket loose = Chute top Dryer choked caused by Waste, wood, rust material
openings at the frame = Oil leaking out pinion bearing = Bolts loose in shearing plate on shaft wheel driving Elevator
Canvas needs repairing pinion bearing East side = S W rail is worn at top =
Canvas needs repair next to shaft wheel driving Elevator = Ratchet wheel loose
plate put on chute top Elev extends out too far buckets catch plate = Buckets striking chute top Elev = Bottom drum too high = Rawhide need repair top Elev =
Oil leaking out pinion bearing in gear casing
Drip pans should be emptied = bottom drum is raised too high = Mercury circles wants repair so they can be adjusted =
Oil cup off E side = Drip pans should be emptied top dryer = Hole worn in chute top Elev
3 wires broken in rope = Bolts in clamp
Very loose = bottom drum too high =
Oil cup off E side = one bucket clamp
loose W side

Dryer furnaces No 1 Dryer
furnace has 5 bad grate bars - several bricks
loose on top of fire box near door -
No 3 fire box will soon need new grates.
Brick arch No 1 fire box needs repair

Coal Conveyor No 1 Dryer
Motor No 630 driving conveyor is exposed to
dust =

Picking Belt,

Hole worn in hopper = roller feed nearly worn into where check plates wear = Hole worn in chute = New check piece wanted in hopper = Drive belt needs taking up tonight = Chute from Dryer has hole worn in it at bottom where fastened to Dryer Gate in Chute to 24 Rolls worn through = Hole in Chute from Dryer to belt = 2 pulleys loose on Counter shaft driving Conveyer = Have pair turnup pulleys put back under Cow belt = Conveyer needs taking up =

~~Top of No 1 Dryer~~

No 1 Dryer —

Pinion bearing driving shaker loose —
Bolts sheared top lever = screws in 2nd & 6th lever
loose, = Bolts sheared 2nd & 4th lever of shaker
No 2 lever sheared = Oil runs down dryer
Chute onto No 2 Conveyer belt =
Button lever sheared = Door at top 1 Dryer
sheared be made secure = Dust is leaking out of
Fan door — Sheet iron sheared be placed
around Crusher Bldg where Dryer ashes
is thrown out by fireman —
Grease cup pipe on top lever of shaker is
broken = Babbitt is loose in Wend
bearing of Countershaft driving Dryer fan
& exhauster = 4th lever of shaker sheared =
Top row of plates in distributor worn nine
holes worn in plate in feeder to distributor
= plates are warped at intakes = button
lever shaker sheared = button lever on
shaker front = Top lever sheared =
plates in Chute delivering to Dryer
heavily worn through = new piece
of rubber wanted on door of four top Dryer
Make provision for new screws top Dryer =
Retainer plate in conveyer chute worn out

flights in distributer are nearly worn out
Holes in division plate in hopper over
distributer. 12 inches dust in flue
chewing in dust house = Set screws loose
in shaker drives = Hinge broken on door
over shaker = Bolt loose in block in
lever driving shaker — 1/16 inch play in
bore of gear wheel driving shaker.
One shield wanted on furnace fire door =
New grate wanted fire box 1003 =
Some plates badly warped = dust breaking
out of fan = 4 levers sheared on shaker =
two bearings on Countershaft driving
shaker. Worn too much play = shields
on fire door furnace need repairing =
One shaker lever sheared = Brick in bottom
intake need repair = plate warped at 2nd
intake = Sprocket chain driving shaker jumped
off 3 times today = Hung set screw in sprocket
driving shaker drilled into shaft also
Collar put on to prevent shifting — shaft
broken on idler of sprocket driving shaker =
Top of furnace shaft cutting into sheet iron
2nd & 6th lever shaker sheared =
Over belt driving shaker needs taking up
2nd & 6th lever sheared = 2 levers sheared

Dryer 1

2 end bearings of Countershaft driving
shaker need tightening = oil pipes straw
holes need repair = shaft in fan bottom
of dryer cutting into sheet iron =
Blades on Exhaust fan worn =.
One lever sheared = Cross drive belt to
shaker broken = 1003 lever sheared =
Countershaft bearing loose next to sprocket
driving shaker = Pulley on fan top
Dryer is loose on shaft
Belt brake on blower top dryer
Bearings very loose next sprocket
driving shaker — Oil pipes leaking
on Countershaft driving shaker
plate in overflow chute top Dryer
has 2 holes worn in it =
Hinge on door in top of overflow chute
top Dryer rusted fast = Make provision
for new screen plate = New division
plate wanted in distributer = New flaps
wanted in screen = plates in distributer
worn very bad =
Fan blades in fan worn bad =
Pulley loose on shaft driving fan
top blower = Dust discharge pipe
from fan should be cleaned.
Bottom intake should be cleaned

Dryer 1 Continued —

No 2 Conveyor -

Canvas on gear casing of drive worn so dust gets in - Belt washing on a piece of wood = Idler bearing about worn out in idler pulley under 2 Conveyor - Belt wearing on cross pieces that support turnups = Oil nipple of driving pinion bearing leaking = Two unions leaking on oil drain pipe head of 2 Cyl Canvas torn on pulley bearing driving 2 Conv One idler bearing worn = Belt needs taking up tonight - Idler bearings pin worn do not oil well = Hose needs repair on conveyor pinion New rubber flaps wanted = Delivery at head worn bad = Delivery is now worn through =

No 3 Countershaft =

Oil leaking out shaft bearing next to the universal rawhide leaking also = 3 pulleys on this shaft are loose on key & shaft = Babbitt loose & end let. shaft lift = oil leaking =

3 Elev Continued

One clamp slipped =
Oil leaking out pinion shaft bearing next to ratchet wheel = Oil leaking out of pinion bearing = one bucket clamp loose
Bottom drum is raised too high =
Springs on Cups sticking rest heads in frame at bottom = Conveyor needs repair
bottom drum a new piece iron plate wanted in
Chute from Elev to Stk House = one bucket clamp loose W side = Wheels very dry =
Oil drain pipe union leaking bad on pinion shaft bearing next ratchet wheel =
~~Hole in chute~~ found 2 were broken in rope
Bolt clamps on rope very loose =
One but rope clamp slipped W side =
Elevator pinion shaft broken caused by both breaking in Mortice wheel =
Oil drip pan under ratchet leaks
Oil leaking out pinion shaft bearing next to drive pulley =
Both bolts loose in Coupling on pinion shaft = Hopper leaks =
Springs on oil Cups head repair =
Bolt in clamps should be lightened
Have new door put on delivery head
Barrell should be placed under pinion bearing W side
Catch oil

No 3 Elevator

Bolts loose in bearings Counter shaft 3 Elev
" " top bearings =
" " Head pulley bearing
Stay bolts in Drum loose = set screws in bearing
Couplings Elevator drive loose = 2 unions leaking on oil pipe near 3 Elev drive =
Oil leaking very bad out of bearing next to 3 Elev drive pulley = Oil drip pan should be Emplied = 4 sets of Tyler double rope
Clamps have slipped together = 5 =
Buckets seem to have slipped together =
Mortis bottom rail on 3 Elevator worn 1/4"
by flange on wheels = Oil tank overflows
Grease cup on Counter drive pulley is loose = Shovel springs off = Carpenters working on 3 Conveyor left pile boards lying unfloor = set screws loose in collar
at shaft wheel shaft driving 3 Elev =
Canvas off frame = Oil leaking out of pinion bearing = Hole cut in bldg to
Dust canvas not been closed = need new roof over Elev = Oil leaking out of pinion bearing = Coupling on ratchet wheel
shaft have bolts loose = Hole in chute
delivering to Elevator = bottom drum raised too high = one clamp slipped =

No 3 Con

Mud off 3 bolts in buckets W side = Tail end sprocket wheel is not centrical with track = one bucket clamp slipped = found 8 wires cut in rope due to accident or carelessness rope otherwise ok = ~~one bucket clamp slipped~~ = 4 bolts broken in buckets E side 4 on W side = springs on oil cups need repair 8 on East if on W bolts broken = Bottom guide rail Tail end very loose W side = Upper top guide rail clamp loose at head end 10 bolts out E side 5 out of W side = buckets = have rails tail end and circle rails brought to gauge & fastened so they will stay Conveyor has jumped a tooth at tail sprocket but it has come back straight = 6 bolts W side 9 East side out of 6 buckets = Conveyor again jumped a tooth in Tail sprkt = 20 bolts out E side 15 out west side buckets = 9 bolts out brackets = jumped tooth again at tail end = pneumo shaft bearing needs Canvasing = one end of the broken that holds bottom rails together at head end again jumped a tooth Tail end = Bottom guide rail very loose tail end = Con jumped a tooth again tail end = oil leaking out union head of Con

No 3 Conveyor =

20 wheels have broken spokes = wheels wear low spots in track where they come over sprocket both ends = off the track, track spread = Oil pipe broken E Gearing Tail End = Bolt loose Tail end Gearing East side = Conveyor two block = Tail end needs to be lined up = Teeth badly worn Tail end sprocket = Two bolts have loose slat bucket drop = Oil running out Gearings head end = 4 buckets have bolts out of them = Bolts put in buckets not right heads of them Extend too far out - liable catch sprocket other bolts have no bushings in them = Mud off buckets 51 x 6 x 113 East side =

Angle shaft driving Elev 3 & Con 3

Set screw loose in sheave driving this shaft. Oil leaking out of angle gear Gearings Drive pulley on angle shaft driving 2 Con Came loose = Wheel on great angle shaft be spotted so set screw would hold = Set screw groove in drive sheave Canvas torn in bearing next to the wheel = Grease cup nipple broken off in E Tail end bearing = 17 bolts out buckets = Oil leaking out pinion bearing head end = Oil leaking bearing next to pulley driving Con

3 Conveyor Crusher
5 6 acts just 6 wheels W side 4 on
East side — Set screws loose in Tail
End sprocket —

Big Rope drive North side
~~Hefa[illegible] on rope sheave~~
~~beam~~

Small rope drive for Elevator No 2
Rope needs to be taken up

Examiner for and Stock House 101
Motor wards Canvassing =

Stock House No 1

Have holes cut in floor under 3 Cov crushers = Have box made Hold 3 to 5 gal oil Can and stock House at top = Hot bearing on motor caused by grit or scale in oil pipe =

Valve on oil cans that oil motor were left open pipes filled up with oil + rubber hose Dust letting oil run on floor =

Door left open in Motor room allowing rain blow in = Wire rope used to open hoppers needs more idlers to support rope it drops down on guide pulleys = gate is fast in No 1 Hopper = one bearing on fan Motor very warm = fan bearing getting no oil = Motor Bearing running very warm = Drip Can of fan bearing overflowing = Dust accumulating on motor = fan bearing getting no oil = Drain can at fan overflowing = oil drain Can overflowing at fan = 3 days afterwards Oil Can overflowing day screws washed Hopper No 16 under Stock H = Rubber hose broaked on oil Can oiling Motor =

Blower Exhauster No 1 Dryer

Dust catcher House No 1 Dryer.

Pit of No 1 Conloss

Pit of No 1 Elevator

Pit of No 3 Elevator

Set screws loose

Bolts loose

Splice belt

Logging loose.

Power House

No 2 Corliss Engine
Water in fly wheel pit reflex up to belt.

Jack shaft No 2 Corliss Engine
Pulley Driving No 242 Dynamo 6 bolts loose in the rim — All cap-bearings are loose on the jack = Bolts loose in rim of pulley that drives 235 Dynamo = Bearings on jack have oil holes open exposing bearings to dust =
Water dropping from steam pipe onto main driving belt = Running at big belt flimsey + dangerous = One rivet out lapping main drive belt on jack =
Oil leaking out union W end driving jack shaft =
Bolts loose in pillow blocks —

Air Compressor large
Backknock in Crank shaft bearing
The jam nut on screw for adjusting this
bearing is loose = Water pipe from
Compressor leaking =

Air Compressor small.
Cap on Crank shaft bearings are loose =

Porter Engine —
Drive belt on Engine is wearing on exhaust pipe
repaired for months

Dynamos Power House

Several rivets out 254 Dynamos pulley
Driving belt of 197 Dynamos has loose
rivet in pulley = wearing belt =
Dynamo 385 needs drain pipe to
bearings = 2 rivets out of lagging
254 Dynamo
Repair bedding No 16 Dynamo for 12" mag
next to Commutator =
Bearing on Dynamo on 12" mags heats just
as bad as before fixing bearing =
Rivets taken out 254 Dynamos pulley lagging
were left lying on machine = Have
shell on 32 Dynamo scraped on Commutator
side =

Climax Cart
2 pails scale Taken from No 9
9 is in better Condition than when
last Examined —

Climax boilers pumps Power House
No 7 Climax boiler has a coating of scale on
shell + Tubes 1/32 thick, boiler muddy = Soda
used to prevent scaling in spite. vis. bio =
No 9 boiler has scale on shell + Tubes
1/16 thick boiler clean = Shields wanted
out 4 for doors = Kerosene lubricator
does not work = 2 pails scale taken out
No 9 today = one plate of mud arrester on
top No 9 has dropped down = average
thickness of scale on shell 1/32 + to
very hard = Scale in tubes of No 9 to
3 pails scale taken out 10 climax boiler
average thickness scale on shell + tubes
1/16 inch scale comes off easy =
new shields wanted on fire doors No 10
Climax = No 10 climax took 1 pail scale
out = scale in tubes coming off = a coating
of scale about 1/16 has started at bottom
of shell + extends up to feed pipe —
Examined No 9 Climax took out 2 pails
scale — scale comes off easy boiler better
Condition than last time Examined =
Took 25 pails scale out No 7 boiler —
scale 1/16 thick on shell No 7 very
hard = blow off + feed pipe No 7 badly
burnt putrescence today —

Mill 1

French Engine,
Throttle Valve out order = worn like center
Cap screw on Engine crank shaft turned up ...

French Engine Jack shaft in Engine house.

Belt loose on main driving pulley & end of Lineshaft — Leaking oil pipe oiling bearings = 2 oil cans taking drain overflowing = One rawhide leaking on shaft bearing Belts full grease = Oil can securing drain overflowing = Have patch put on drive belt = belts greasy = again 10 days after Belts greasy =

French Engine main shaft in mill
One valve leaking on bearing center shaft
Main drive pulley has several nuts worn off
hanging = Grease showed to wiped off Gratt
again reports grease showed to wiped off
in main belts = Oil leaking out of W
end bearing =

French Engine House from dust

Babcock & Co Boilers Mill 1 & pumps
No Kerosene Lubricator on Boilers
Soot around mud drums = Kerosene
lubricator out of order = 7 headers leaking
in front No 1 boiler 2 leaking in back —
Short tubes leaking in mud drum — No 1
Soot should be cleaned off of mud drums
Vertical tubes No 1 = 3 headers leaking
in back of No 2 Soot should be cleaned off
Foreman neglect shut water off tank boilers
~~too~~ feeder feed pump stops —
2 front headers leaking in No 3 boiler —
Soot should be cleaned off mud drums &
tubes Nos 2 3 & 4 B&W — 7 front headers
leaking in No 1 — several back headers
[redacted] leak on No 1 —
several back heads & 3 short tubes
leaking in No 2 2 back headers
leaking on No 4 — stops should be
put on front of boilers prevent doors
blinking water Columns —

3 High jackshaft —
Bolts loose on driven pulley — bolts loose
in pulley driving 4 & 5 Conveyor = Vertical leaking
on main oil pipe over main 3 H. Roll drive =
Oil pipe leaking W end bearing jackshaft —
dagging on belt tightener main drive
needs looking after, Canvas is torn on
idler bearings = Collar on belt tightener
main drive belt has piece broken out
Cant keep Canvas on = Main oil pipe
at jackshaft leaking in several
places = Several belt hooks in main
belt driving the jack are loose &
broken = H.D.S. bar drive belt taken up.
Main drive belt wearing on foundation;
set screw loose in main drive pulley on main
jackshaft — Hooks should be taken out
by 36" drive belt = set screws loose in
main drive pulley —

4-5 Conveyor

RR track heads running over 4-5 Con
Main oil pipe leaking at Valve, head of 4-5
Belt running under guide pulley - 2nd
pulley from S Elev in stock House =
Idler pulley shaft bent in pump house
section = Bottom belt running on
top guide pulley in pump house section
Bottom Idler pulleys running in water
under No 1 stock House =
2 Idler pulleys are loose on shaft
near center stock House = one Idler
bearing under stock H has plug out of
it = Oil tank head of 4-5
overflowed = Inspector suggests
some of the guide pulleys be changed
in position =
Main oil pipe oiling friction clutch
leaking bad = Lagging loose on Elev =
Main shield put at tail 4-5 to keep
shaff-off bottom of belt = rope not
in good condition on Idler belt =
Idler pulleys on incline dont turn too low
Wood lagging on several Elev loose =
Main Dd belt rope coming loose =
= take up 4-5 Conv belt = Lagging loose
on Idler of 4-5 Con

Idler bearing under RR runs hot =
Lagging loose on Idler on Conveyor =
Shaft bent on one Idler in pump house =
Spring off guide pulley at pump house =
Oil leaking out under head of 4+5 Con
Have safety Clutch repaired, bolt worn to
Lockup = belt runs on top guide pulley
in pump house = Rope is creeping caused
by dampness ? = Have idler Collar on 4+5
Con lowered one inch = Set screw loose
in pinion shaft = Oil leaking out of bearing
next to friction wheel driving 4+5 =
pinion driving Con 4+5 works loose = Suggest
Collar between pinion + bearing = Dust
accumulates under 4+5 idler back 3 Elev =
4 & 5 in pulleys in lower belt near tail end
not setting central with belt = One guide
pulley in pump house has spring off =
Wooden lagging loose on Idler pulley
near head end = pinion driving Con shifted
again = Conveyor belt needs taking up =
Chips wanted in door on box over friction
clutch driving 4+5 = One Conveyor oil
wood pulley bearing is loose around the
shaft = Oil leaking out bearing next to
friction pulley driving Con =
Rawhide lacing [illegible] = Idler Bearing

4+5 Continued –

~~Between Opens under No 1 Step No~~

Rope rawhide or lacing in one is needs
repair = Have extra set friction shoes made
for friction clutch = Wooden lagging off
idler on Con opposite 3 Elev = nuts
loose on bearing plate - something should be
put out tail end to prevent anything spilling
between belt + pulley = Idler lagging
loose in pump house = Conveyor rope
wearing on cross piece in pump house =
Drive belt needs taking up =
Dust accumulating under 4+5 back of
Elev 3 = Hole worn in plate delivery
from 4+5 = Conveyor belt needs taking
up = Lagging loose on all Elev
plate should be put in head of 4+5 =

Mine pump at 4+5.
Elbow leaking on steam pipe in
pump House 4+5 =

McG + S Engine & pump Mill No 1
& Jackshaft) =
Set screws & bolts in hubs & rims of main
drive pulley of Engine are loose =
Set collar on jack is wearing canvas on
middle bearing = Steam pipe feeding Eng
leaking at flange joint. - Water is running
on Main drive belt for 3 H Rolls pump =
3 Tees & 1 union leaking on oil pipes
Jack shaft = Driving belt is Tighter than
the other, bearings get Warm —
Canvas worn on Bevel gear Casing by Keyway
also causes oil run out of shaft casing
over

Dust gets in from Mill =
Tighten up belt East side McEng
See if you can fix side wall Big mfce
House under floor =
Water in pulley pits should be watched
Water was within 9 inches of pulleys
Union leaking oil pipe jack shaft bearing
Union leaking on main oil pipe drawing by
Mac jack bearing = Dust gets into Engine
house through cracks in partition =
High pressure Valve works jerky when Engine
starts = works regular when Eng starts down =
Door of Water Ventilating house has no latch dust
gets in = Oil cup getting on drive belts of Engine
Oil Cups on Ventilating Water need looking
after = 2 grease cups lying on ground
East Engine house & Belts will have to be
taken up soon = Belt on Ventilating fan
Water needs taking up = Keep valves
leaks = Steam trap = blowed all day =
again same often a week = Water running
into pulley pits comes from Engine drips = Hot crank
pin = Oil on big belts = ~~[illegible]~~ oil hose
bursted 2 end bearing Eng = Steam trap blowing
off = Valve leaks = Oil drum pipe stopped
up 2 end bearing on Engine = Union leaking
in oil pipe on Engine room = Steam pipe in
[illegible] =

Screens over 14 mesh 3 High =
Have Competitive look over screens =
Splice broken in drive belt for screen roller feed

Big Mac Cutting =
Belt loose in back of pulley on Engine jack shaft
that drives N mill line shaft = rivets wanted in
lagging = New lagging wanted on belt
Lightner pulley on belt driving N mill line shaft
~~and screw loose [illegible]~~ Heat forming on
Eng jack shaft Caused by sight feed
stopped up with dust =
Set screws loose on drive pulley
on Eng Mc driving N mill line shaft =
Steam trap blowing off Continuously Valve leaks

1st 14 mesh 3 High =
New check pieces wanted =
Valves on oil pipes oiling 3 High rolls
bearings in loose + tight + guys
troubled in regulating oil feed =
Take up drive belt Roller feed =
Reducing valve on 14 M.R does not work =
= Have pipes fixed = put new check pieces in =
Have wire rope looked over = Wood Hopper leaks
Cover over chute is worn through =
Sent that the reducing valve is fixed =
Oil leaking out bad gear bearing = Mr Gay
Suggests longer guide wheels for rope =
Screw joint leaking on oil pipes
at base of rolls = proof of oil at base
of rolls came from bearings =
Tee leaking out of union near valve
on main oiling line — Pistons leaking
in air cylinder both sets rolls =
Leaking in air receiver used to supply air
to 3 H Rolls — 2 Tees leaking in wobbled
shaft bearings = bottom of screen hopper
worn through = Screens in hopper worn
through = Have set to screws for calling ~~down~~
in order they will go in hole drilled in shaft
Caps on Centre roll is loose ~~both~~ two bolts
stripped = Tee on oil drum pipes too high

Wire rope has several lines broken =
Grit + dirt accumulate on rope sheaves
wheels = oil cups wanted on 1 & 4 roller
feed hopper = Screws out of bracket
Screening pipe that oils Smith Bottom bearing
Screws loose on oil casings on intermediate
roll bearing inside & outside S bearing =
= Screws have thread stripped top roller
bearing Smith. = Wire rope worn bad
+ wind broken = New check pieces
wanted = Division piece between 1st &
2nd 14 m rolls delivery has a hole in it =
Raw hides need repairing = Hot bearing =
bottom = Wobbler broken = nut off of
bolt in hinge of rubber flap =
Screws out S middle oil casing =
Screen hopper wearing on bottom roll =
Roll getting fin on it = Hole worn in door
on top hopper bolts out of rubber flap on
same = Hole worn in division plate
in delivery = S bottom oil casing loose
Check pieces wanted = plate in front of
roller feed on screen over roll worn through
front plates roller feed hopper need repair =
Hot bottom bearing =
S off rubber flap roller feed for screens
worn off 2 roller feed

1st 14 M Continued =
New check pieces wanted =
rope is rubbing on limber at head 4 + 5 Con
wants cutting out = Hopper for screens for
roller feed worn through = new flaps wanted
on gate = Hole worn = front plate on screen
roll feed over 3 High = Oil pipe need changing
at head 4 + 5 = Roll rope will soon hit it on south
side = New rope wanted = side bearing
wants tightening up bolts loose = New dust
guard for ropes wanted = S end = new rope
put on fits sheave tight over rolls =
7th 14 when new wobbler put on by Keeys
was not levelled up right = end of shaft
raised up so high made wobbler bind =
Rope needs taking up = large gear
used for turning off is loose on shaft =
Heavy oil casing put together in bevel gear
New bottom wanted on chute =
New gate wanted on Hopper =
Weight broken on lightener on belt
driving roller feed screens =
Wood lagging loose on bottom roll
pulley = Tooth loose big angle
gear = Nut loose on bolts in rope
sheave wheel bearings over roll =
New rubber wanted on wobbler

1st

14 Mesh & Cont'd

Rolls need turning up =
New rubber check pieces wanted on Roller f
One vertical stay bolt loose =
~~Counterweight~~ Canvas wanted on
roller feed bearing

2nd 14 Mesh 3 High =

Feeding pipe oiling rolls looks badly on
S side = Top sheave wheel
bearing runs hot = Check piece wanted
New pieces of rubber + one clamp
wanted on Roller feed = Counterweight
screws loose holding bushings South
Bottom bearing — Oil coming on S
bottom bearing not tight = 5 wires
broken in splice of rope = Rubber flap
worn out = New check pieces wanted =
Safety Valves on 3 H Roll blowing off
Continuously = Hole in bottom of Hopper
One stay bolt loose = Rubber check
piece wanted = One angle plate has
hole in it in top chute = Hole worn in
bottom hopper = Cap screws loose
S middle oil casing = Cap screw loose
S bottom oil casing = Drip pipes wanted
to be tightened up = Oil coming looking badly
Bottom hopper has holes worn in it =
One new check piece wanted = New flap
wanted in screen plate = Hole worn in
side of delivery from roll —
Have screens plates over rolls put in tomorrow
Wood lagging loose on pulley on
Golland Rock

2nd 14 m Rull Called

Canvas wanted on rollers for Training

New check blocks wanted —

Main air pipe over rails leaking

1st 50 mesh 3 high —
Oil pipe leaking that feeds wobbler
bearing = Bottom bearing runs warm =
Bottom bearing runs hot ~~wobbler side~~ =
Have pipes fixed all joints leak = go ahead
fix up Rolls = Rawhide leathers wobbler
Bearing - Too leaking also =
Bolt loose in thrust bearing = 3 new
screen plates wanted on screen over roller
Cap screw stripped middle bearing oil
Casing N side = Middle roll spilling fine
N end = one bolt out dirt guard on bottom
roll N side = one bolt loose top
thrust bearing = one nut loose on stud
in S bottom oil casing = Turnbuckle
hook needs repair on shell feed = oil
pipes need repair =
Bolt loose in collar on middle roll shaft
that keeps shell in place = Bolt loose on
Collar on bottom roll shaft S side =
Rope needs taking up —

2nd 50 mesh 3 high –
Oil pipe feeding wobbler bearings leaking at union
One shive wheel is out line with the other
Causing rope to wear = top sheave
wheel rims hot = Have bolt on
guard on top of bearing locked
they work loose = Hood leaking on
Main Oil pipe caused by not being clamped
properly = One sheave wheel is not
in line with rope = Direct guard off
South Side = One piece shimming out bearing
East side bottom = New plate wanted
underhopper to keep wood from wearing
Have logging put on roller feed drive =
Have to bolt a plate across the top of bearing
to hold down the side shims this plate
to be bolted down with bolts that hold
deflecting plate put in 5/8 bolt =
Clutch is broken = piece wood loose
under air cylinder South bottom bearing
hot = Wires broken in rope = Cap
loose on thrust bearing on middle
roll = Bracket support for oil bearing off =
Nipple broken off N bottom bearing
Bottom bearing runs warm = set screw
out of collar on top roll S side –

4 Elev Cont

found 9 wires broken in rope —
found 11 wires broken in rope week after —
Drive belt hits timbers —
One wheel off — Oil leaking out of
pinion shaft — W side — Bolts are loose
that secure tires on top drum —
Top bolt loose in rail N W side —

Elevator No 4

Oil pipe feeding pinion bearing showed
to have made seems Vibration of pipe causes
joints to leak —
45 deg Elbow on main feed pipe feeding
bearings at top leaking —
Springs on Oil Cups of wheels are
weaned in frame caused by track
being worn at bottom Elevator —
Wheels are very dry — Elev is running
to W side causing flanges of wheels to
wear on clamps —
Have back of delivery top Elev back cut
down lower — dogging loose & worn
out in lighters in belt driving Elevator —
3 wheels have flanges entirely worn
off — Northwest top rail is worn so bad
clamps strike rail — flanges on wheels
worn very thin — Wheels very dry —
6 rawhides left disconnected by night gang —
Bolts in braces — brackets — splices & rails
should be tightened — clamps wearing on
frame — Bottom drum too high —
4 wheels running very dry — Drive belt should
be taken up — Wheels & bushings worn very
bad Can't keep oil in them — Have remainder
of old wheels replaced by new ones bought

Elev 5 Continued
Nuts loose on stay bolts in bottom
Elev drum — Oil leaking out of
~~Primary shaft bearing drum 5 Elev~~
bevel gear bearing driving Elev —
Oil leaking out of pinion bearing top

Elevator No 5
5 sheaves wearing on frame —
Oil leaking out bevel gear shaft
bearing next to pulley driving 5 Elev
Canvas loose on bevel gear bearing
driving 5 Elev = Shearing pins
were not tightened this morning =
Neither rail trail is worn very bad —
Have bale on belt tightener drive for Elev shortened
Bottom drum is too high = Bolts in braces
brackets splices + rails should be tightened
= Wheels dry = oil ditto week after =
Drive pulley 2 3/4 out of line with pulley on
driving shaft = Belt tightener on driving belt
should be put in line =
Wire rope drive to Blower end
Drip pan at bevel gear causing
rope sheave running over =
Oil leaking bad drain pipe bevel gear
driving wire rope sheave ? =
Wire rope very dry found one wire
broken in splice = Sheave wheel
loose - mentioned tighten set screws twisted
them off = The drive rope will have to be
taken up soon = Wire rope needs watching
that it dont come in contact with manilla
drive rope of Dryer =
JWW

running rope wearing on opens rope =
Bottom drum too high = no way broken in rope =
Oil pipe leaking near shearing plate =
Rope should be taken up tonight

Elevator No 6 =
Oil leaking out of pinion shaft bearings
Drain pipe seems to be stopped =
Key in Counter shaft driving 6 Elev wearing
Canvas = Canvas torn on pinion shaft
bearing drive = Oil pipe feeding
gear bearing leaking = Oil leaking
out pinion =
Bolts loose in pinion bearing = oil
pipes should be secured =
Take up screw 6 Elev cannot run (thread
nut down on thread = bottom drive
bearings not canvassed = when Elev
runs slow dirt drops off back of
buckets & lodges on Blower floor
line shaft bearings = Lagging off
tightener on belt driving Elevator =
Large gear casing vibrates 1/2 inch
Bolts loose in pinion shaft bearing next
to ratchet wheel = New pulley wanted
for belt tightener lagging wanted on same
Elevator runs to west side & wearing on
beard rim top =
Worn belt tightener put on drive of
Elev = Ratchet wheel loose on key =
lagging loose on counter shaft drive pulley
Oil tube top Elev already empty 10 am =

Elev 6 Cont'd -

Belt tightener on drive is broken - no bagging on pulley = Oil pipe loose on pinion shaft bearing next to steel wheel = Belt driving Elev wearing on wood = Oil dripping out of gear casing pinion bearing =

Dryer No 2

Canvas torn off bearing next to rope sheave wheel 2 dryer -
Oil pipe oiling R feeds leaking bad drain pipe seems to be stopped =
Drip pans under roller feeds pipes leaking
Oil leaking out of bearings on fan
Drum pipe, draining rope drive sheave
Countershaft bearing at Dryer should be
Secured against vibration =
Oil leaks out bearing of Exhaust fan =
Water in pit bottom Dryer =
too much lateral motion in Countershaft driving fan bottom Dryer =
Rope driving Dryer wants taking up =
12" dust on discharge pipe Exhauster =
Rope driving Countershaft in Dryer wearing on rope tightener frame - Caused by being too slack = Oil running out of fan bearing top dryer + dropping on Countershaft drive =
Union on pipes draining bearing Top leaking near Can 12 = Oil leaking out of fan bearing top Dryer = piece of wood lost
Countershaft driving fan in pit and to at bottom dryer needs to be braced = too much vibration in pipe oiling W end bearing sheave wheel

Bolts in Coupling on sheave wheel shaft at Dryer came loose & were tightened up by Millwright - would suggest bolts be riveted = Door over oil light feeder is broken off = Belt driving Countershaft that drives fan bottom Dryer should have splice repaired = Bearings on rope tightener run hot = Distributor has hall worn in it = Bottom air passages is entirely stopped up with dust = Rawhides leaking top Dryer Manilla drive rope should be taken up Sheave wheel on Countershaft at Dryer loose on shaft = Discharge pipe nearly full dust = Belt tightener on belt driving Counter that drives fan bottom Dryer needs repair = Rope drive should be taken up = too much vibration in Countershaft driving fan at bottom Timbers holding bearings needs bracing = Belt driving fan should be taken up tonight = Oil leaking out bearings nut to rope sheave. Rope sheave wheel loose on Countershaft at Dryer = Coupling on Countershaft driving fan top dryer has bolts loose in it = Discharge pipe is full dust = Teeth loose in angle gear driving Dryer

Dryer 2

Drop pipes stopped up on angle gear drive = Bolts loose in coupling on Counter shaft driving fan = dragging loose on tightener on belt driving fan top dryer = Manilla drive rope should be taken up tonight = Drain pipe stopped up S.E. bearing roller feed on Dryer.
45 deg elbow leaking top Dryer
Belt needs repairs on fan bottom Dryer
Bolts loose E end bearing Countershaft driving fan at top =

64 mesh screens

Canvas belt off sprocket line shaft, bearing 14 m screens — Some sprocket chains driving roller feeds are wearing and trans supporting bearings —

Sprocket wheels on counter drive roller feeds have 2 bolts out of it.

50 Mesh screens =
Leak =

12" Magnets.

8" Magnets.
2 unions on feed & drain pipe that oils
bearings no sprocket chain line shaft
are leaking = Canvas on W end bearing
8" mag Conveyor shaft torn =
2 unions leaking on oil pipes 8" mags =
New sprocket chain needed down No 2 brush
roller feed = One chute over No 3 North side
magnet under 20 ½ Gn broken =
Oil pipe leaking on line shaft
N side =

Blowers Dust bin & scraper Conv
T & union leaking on oil pipe near gear
that drives blower countershaft =
Oil leaking very bad out of gear
bearing on Blower Counter =
Oil leaking out gear bearing on
Counter is caused by Keyway in shaft
Nos 6 + 7 Roller feed in dust way
run over the end blower floor =
3 wood pulleys on main shaft loose
in keys = Set screws or bolts come
1x 6 loose in sheave wheel on
blower floor line shaft — Wheel wobbles
16 + 24" belts on blower floor should be
taken up = pulley driving No 7 blower
shifted on shaft = one wood pulley
loose on key line shaft =
No 7 blower striking on side of
Casing =

4" magnets,
Reversed Bad leaks in oil pipe oiling
4" mag Countershaft =
One clutch on Counter needs to be
Canvassed = Canvas is off clutch
that drives roller feed =
Roller feed sheaves on bank 5 =
Clutch on R feed bank 6 dont work =
Oil Leaking out Countershaft bearing =
Untrick thread is stripped in bearing =
Clutches stick = an opening S
Side of 4" magnet floor back of 6 clear on
E end 4" " floor = leak at dust way
4" mag floor = No 5 bank roller feed
sheave Constantly = Belt driving line
shaft runs to one side = rawhide
leaking rust end bearing of Countershaft
driving 4" mag lineshaft = Drain pipe
also stopped up = Sprocket chain jumped
off roller feed = Sprocket chains driving
roller feeds are so close to magnets that
when current on draws them in so they
Cut in foot of magnet 1/4 inch
Minus sprocket on bank 4 is out of line
No 6 clutch lever shaft N side 4" mag
loose in Coupling = new Canvas wanted
Countershaft bearing Minus 4" mag floor

Sprocket wheel on bank No 8 is out bi.
on South side = oil pipe on stands needs
repair on gear bearing bank No 1 =
Screws driving pulley for No 1 bank badly
worn = 2 clutches need Canvassing on South
side = ~~platform wanted Top~~ m

Belt machines,
Canvas torn on Counter shaft bearing driving
belt magnets = Key in Countershaft is working
Canvas = Oil leaking out bearings
next to belt magnet Counter shaft =
Oil leaking out friction clutch bearing on
end Countershaft driving belt machines
= Union leaking on W end bearing Countershaft
Dust gets in bottom roll belt mags =
Have new steel put in clutch of magnets =
Guide wheels are wearing edge of belt on
Separator = New canvas wanted on friction
clutch = new steel wanted in friction
clutch No 2 machine = Have extra friction
shoes made for No 2 belt mag. drive =
platform wanted over top of mags so
man can oil bearings when running =
Steel out friction clutch No 2 Belt Drive =
Take up screws No 2 want cleaning
up + Canvassing = clutch on No 2 needs
new pin + steel (tightens) =

Stock House

No 2 Stock House
Door Broken =

Fire apparatus

2 hinges broken off box 1
No spanner wrench on fire plug 1
No spanner wrench on " 2
3 Hinges broken off box 2
Coupling on one end of Hose broken
one spanner wrench on plug 2
No Valve wrench on plug 2 =
No 2 plug is covered with dirt so
Cannot connect hose on it.
2 hinges broken on box 2
No spanner wrenches on box 3
One hinge broken on box 4
" " box 6
No spanner wrench on box 6
Hose box 7 no hose - no crank to wind hose
No spanner wrench = No nozzle in No 7
" " " box 8
Valve in plug 8 leaking

General

Valve & steam pipe to engine at Coal trestle leaking
Skip lugs broken 1
Railing along steps leading to 3 Conveyor needs repair = something wrong in water cylinder at pumping station — Oil drain tank in Mill 1 needs to be changed = dirt & waste is causing trouble with Oil pump —
Union leaking in steam radiator between 184 & No 2 Oil tank Oil house =
A length of air pipe near the track of Victor Mine knocked out & pipe badly bent supports along big pipe are rotten = Street & Norman shovel have belt clamps & wrenches where we can get at them = Night men leave water on floor & lunches in Mill = All fire hose should be looked after = 2 leaks in steam pipe between Crushing plant & Mill 1 leaks in air line to Frankhill — 4 Valves leaking at gland packing — 3 Couplings 6 Tees 8 plugs — one Union — 5 plug unions — pipe needs supporting in many places leaks in air line to Davenport.
5 Valves leaking at plug glands 3 Couplings one T or L the pipe needs support in several places — Coal hoisting engineer is to direct

Rainwater off French Eng house roof runs into Babcock boiler room
Implement left, canvas, waste & wood lying in Concentrate foot 6 Elev=

No 1 Loco

Flange cock leaking — Dome leaking — Sand box needs repairs — check valve needs repairs — Rear steps need repair — Cover over false head broken — lost motion in gibs crosshead & rods needs taking up — ~~[illegible]~~ Brake beam bent — Jam nut loose on throttle valve lever — Brace brake w/ pot iron, no screens in tank — Water tank is rusty & dirty — pile of fish plates laying in Loco house — Cab needs repairs! Connecting rod striking on brake shoe —

No 2 Loco

Brackets supporting Headlight Loose — Lost motion in gibs, crosshead & rod = front slip needs repairs — pin nearly worked out of Brake beam = Jam nut loose on Throttle Valve stem — Spring on Throttle Valve lever is very weak = Key Loose in Cylinder Cock lever = Brace brake on petticoat pipe leaking front head Boiler — No screen in water tank = Water Tank rusty & dirty = Connecting rod striking brake shoe = one side Cab splintered caused by brakeman letting Car run into it —

No 3 Loco

Steam blowing through piston rings

Rear steps need fixing =

Link-pin Box needs repair =

Front steps needs repairing = rear step do

Link-pin box needs repairing = flues

Leaking — link box needs repair

steps need repair — front end 3 Loco

Derailed Caused by Car getting away out

Davenport brake out order on Car =

Yard Engine —

Engine needs lubrication = springs on rear truck are wearing on boiler — one cylinder cock broken = Valve gear has lost motion — Blower pipe twisted — Water tank leaks — One counterbalance weight loose in Driving wheel — Something wrong with Safety Valve or steam gauge —